DEREK G. RANCOURT, P.E.

SME
SEVEE & MAHER
ENGINEERS
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EDUCATION

B.S. and M.S. – Civil Engineering, University of Maine, 2008 and 2010, respectively

PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS

Professional Engineer – Maine, Colorado, Pennsylvania, Texas, and Wisconsin

EMPLOYMENT HISTORY

2024 to present – Sevee & Maher Engineers, Inc., Cumberland, Maine, Principal Structural Engineer
2016 to 2024 – SGC Engineering, Augusta, Maine, Structural Engineer
2011 to 2016 – Bangor Natural Gas, Bangor, Maine, Engineer
2010 to 2011 – WBRC Architects Engineers, Bangor, Maine, Structural Engineer

AFFILIATIONS

American Society of Civil Engineers (ASCE)
Structural Engineers Association of Maine (SEAM)

PROFESSIONAL EXPERIENCE

Derek Rancourt is a licensed Professional Engineer with over 15 years of experience in civil and structural engineering projects. He has technical expertise in the areas of structural design and construction support with extensive knowledge in the utility industry. He specializes in the structural design of substation superstructures and foundations and has provided construction support as the Civil Owner's Engineer (OE), overseeing several substation projects from the design phase through project completion. He is experienced in the analysis and design of steel structures and foundations.

Representative projects in his areas of expertise include the following:

- ES Boulos, Brookfield BESS Projects, Maine and New Hampshire – Structural design and construction support for an engineering, procurement, and construction (EPC) contract to install battery storage facilities at three hydro dam sites in Maine and New Hampshire. The three sites included new stations at Berlin, Bonny Eagle, and Rumford.
- George's River Energy, Steam Turbine Generator (STG) Pedestal, Searsmont, Maine – Reviewed existing concrete STG pedestal at Robbins Lumber to determine structural adequacy to support a new STG. Performed full analysis of equipment structure and building foundations, with results reported in the final report, including recommendations for crack repair and future structural monitoring program.
- Central Maine Power Company (CMP), Ground Fault Overvoltage (GFOV) Projects, Maine – Designed various custom steel structures and foundations to add GFOV protection at approximately twenty substations because of new distributed generation interconnections.

- CMP, multiple substation projects, various sites, Maine – Civil Owner's Engineering (OE) providing drawing review, construction submittal review and responding to Requests for Information. Assisted CMP with new foundation designs where site conflicts prohibited use of Standard details. Civil OE substation projects included: Newcastle, Sewall Street, Raymond, Prides Corner, Bucksport, Moshers, Riley, Shaw Mills, Sanford Solar, Farmington Solar, Goosefare, Ludden Lane, Spring Street, and North Limington.
- CMP, Maine Yankee, FAA Lighting, Wiscasset, Maine – Designed a falling-ice protection canopy and foundation for controller equipment to be installed under a 150-ft tall transmission line tower in the right of way near the Maine Yankee Substation.
- ProEnergy, Topaz Generation Station, Texas City, Texas – Designed structure for high-voltage equipment at a greenfield 138kV facility located in a hurricane zone. Major structures included dead-end and strain tower A-frames, switch stands, bus supports, CVT stands and circuit breakers.
- CMP, Roxbury/Roxwind Substation, Roxbury, Maine – Performed the structural design of 34.5kV cable termination structure and breaker foundation at Roxbury station. Designed foundations for control building and MET tower at Roxwind station.
- EDP Renewables, Indiana Crossroads Substation, White County, Indiana – Evaluated structural calculations and drawings for structural steel and foundations for the new 345MW Wind Farm Collector substation. Recommended modifications to structural steel and anchorage design.
- Madison Electric, Jones Street Regulator Replacements, Madison, Maine – Assisted the Utility with design and procurement of unscheduled equipment repairs including a new regulator support stand and precast concrete slab.
- CMP, Surowiec Switchgear Replacement, Pownal, Maine – Performed structural design of steel stands and foundations associated with 13.8kV reactor breaker replacements and new bus supports.
- Versant Power, Orrington Control House Foundation, Orrington, Maine – Designed new control house foundation including an underfloor trench cabling system with steel grating and supports.